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TITLE : PRODUCTION OF FLUOROMETHANE

ABSTRACT : PURPOSE: To produce the titled compound useful in the field of semiconductor industry, in high yield, with little production of by-products, by the vapor-phase reaction of methyl alcohol with hydrogen fluoride at a temperature within a specific range, using a catalyst comprising zinc fluoride or zinc fluoride supported on a carrier.

CONSTITUTION: A fluoromethane is produced by the vapor-phase reaction of methyl alcohol with hydrogen fluoride at 100–500°C, especially preferably 150– 450°C, in the presence of a catalyst comprising zinc fluoride or produced by forming a mixture of zinc fluoride and a carrier (preferably activated carbon) or supporting zinc fluoride on a carrier. The zinc fluoride used as the catalyst can be produced e.g. by fluorinating a zinc compound such as zinc oxide, zinc hydroxide, zinc chloride, etc.

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